

SEQ ID NO.1

FIG.1 a

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GAATTCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59(U.RER:SER ID) NO 1 19(LOWER:SER ID) NO 4
TTCCCTTCACTACAAACTTCATTGCTTGGCCAAAAAGAGAGAG	119 39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCATGGAGGGCAAC	179 59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTTATTTA	239 79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC M D Y O V S S P I Y D I N Y Y T S E P C	299 99
CARABATCARTGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG K I N V K Q I A A R L L P P L Y S L V	359 119
TTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG L I F G F V G N M L V I L I L I N C K R	419 139
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT	479 159
CTTACTGTCCCCTTCTGGGCTCACTATGCTGCCGCCCAGTGGGACTTTGGAAATACAATG	539 179
TUTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC	599
∉ Q L L T G L Y F I G F F S G I F F I I ⊡	199 659
CECCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTTTTGCTTTAAAAGCCAGG	219
ACGGTCACCTTTGGGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTTTTGCGTCT T V T F G V V T S V I T W V V A V F A S	719 239
CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT L P G I I F T R S Q K E G L H Y T C S S	779 259
CATTTTCCATACA H F P Y	

GAATTCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59(UPPER:SER I) NOZ 19(UWER:SER I) NOS
TTCCCTTCACTACAAAACTTCATTGCTTGGCCAAAAAGAGAGTTAATTCAATGTAGACAT	119 39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCATGGAGGGCAAC	179 59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTTATTTA	239 79
	299
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	99
M D I Q V O O -	359
CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG	119
CAAAAATCAATGTGAAGCAAATCACTACATGTGAAGCAAATCACTGTGAAGCAAAATCACTGTGAAGCAAAATCACTGTGAAGCAAAATCACTGTGAAGCAAAATCACTGTGAAGCAAAATCACTGTGAAAAAAAA	119
#OKINVK Z 1 12 12	410
TECATOTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG	419
	139
IFGFVGNML V I I I I	
TOTAL CONTROL & CONTROL OF THE CONTR	479
FIGAAGAGCATGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT	159
K S M T D I Y L L N L A I S D L I I	
	539
FORTH CTCTCCCCTTCTGGGCTCACTATGCTGCCGCCCAGTGGGACTTGGAAAAAAAA	179
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#GTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC	199
	659
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTTGCTTTAAAAGCCAGG	219
	217
	719
ACGGTCACCTTTGGGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTTTTGCGTCT	,
ACGGTCACCTTTGGGGTGACAAGIGIGATCACTTGGV V A V F A S	239
TVTFGVVISV	
CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
CTCCCAGGAATCATCTTTACCAGATCTCAAAAGAAGGICIICATTACATCATCATCATCATCATCACAGATCTCAAAAAGAAGGICIICATTACATCATCATCACAGATCTCAAAAAGAAGGICIICATTACATCATCATCACAGATCTCAAAAAGAAGGICIICATTACATCACAGATCTCAAAAAGAAGGICIICATTACATCACAGATCTCAAAAAGAAGGICIICATTACATCACAGATCTCAAAAAGAAGGICIICATTACATCACAGATCTCAAAAAGAAGGICIICATTACATCACAGATCTCAAAAAGAAGGICIICATTACATCACAGATCTCAAAAAAGAAGGICIICATTACATCACAGATCTCAAAAAGAAAGGICIICATTACATCACAGATCTCAAAAAAGAAGGICIICATTACATCACAGATCTCAAAAAAGAAAGGICIICATTACATCACAGATCTCAAAAAAGAAAGGICIICATTACATCACAGATCTCAAAAAAGAAAGGICIICATTACATCACAGATCTCAAAAAAAAAA	259
T. P.G.I.I.F.1.R.3.Q.R.—	
THE PART OF A PROPERTY OF A PART OF THE A AGATAGT CATC	839
CATTITCCATACAGTCAGTATCAATTCTGGAAGAATTCCAGACATTATATTCTGGAAGAATTTCCAGACATTATTCTGGAAGAATTTCCAGACATTATTCTGGAAGAATTTCCAGACATTATTCTTGGAAGAATTTCCAGACATTATTCTTGGAAGAATTTCCAGACATTATTCTTGGAAGAATTTCCAGACATTATTCTTGGAAGAATTTCCAGACATTATTCTTGGAAGAATTTCCAGACATTATTCTTGGAAGAATTTCCAGACATTATTCTTTTTTTT	279
CATTITCCATACAGTCAGTATCAATTCTGGAAGAATTTCCAGACATTATATATA	

SEQ ID NO.2 FIG.1b

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GTG		~~~	برت برت	ملعلت	ccc	አ ጥር፤	אככ	ראר	тсс	TGC	ATC	AAC	CCC	ATC	ATC	TAT	GCC	TIT	GTC	1139
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GGG				303	3 3 C	~~~	سبب	لايلمك	حسر	ے بلستہ	ىلىك	ממטי	AAG	CAC	'ATT	GCC	AAA	.CGC	TTC	1199
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Marie de Armi																				
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SEQ ID NO.2 (SUITE)

FIG.1c

GAATTCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59(UPTER:(SER I) (D) 19(10WER:(SER I) (M)
TTCCCTTCACTACAAACTTCATTGCTTGGCCAAAAAGAGAGTTAATTCAATGTAGACAT	119 39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCATGGAGGGCAAC	179 59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTTATTTA	239 79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC M D Y Q V S S P I Y D I N Y Y T S E P C	299 99
CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG	359 119
TTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG	419 139
GTGAAGAGCATGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT GTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT GTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT GTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT	479 159
CTTACTGTCCCCTTCTGGGCTCACTATGCTGCCGCCCAGTGGGACTTTGGAAATACAATG	539 179
TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC	599 199
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTTGCTTTAAAAGCCAGG	659 219
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCGTCT	719 239
T V T F G V V T S V I I W V Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	779 259
L P G I I F T R S Q R E G D H  CATTTCCATACATTAAAGATAGTCATCTTGGGGCTGGTCCTGCCGCTGCTTGTCATGGT  H F P Y I K D S H L G A G P A A A C H G	839 279
H F P Y I K D S H L G A G F A M	

FIG.1d

SEQ ID NO.3

CATCTGCTACTCGGGAATCCTAAAAACTCTGCTTCGGTGTCGAAATGAGAAGAAGAGGCA H L L L G N P K N S A S V S K *	899 299
CAGGGCTGTGAGGCTTATCTTCACCATCATGATTGTTTATTTTCTCTTCTGGGCTCCCTA	959 319
CAACATTGTCCTTCTCCTGAACACCTTCCAGGAATTCTTTGGCCTGAATAATTGCAGTAG	1019 339
CTCTAACAGGTTGGACCAAGCTATGCAGGTGACAGAGACTCTTGGGATGACGCACTGCTG	1079 359
CATCAACCCCATCATCTATGCCTTTGTCGGGGAGAAGTTCAGAAACTACCTCTTAGTCTT	1139 379
CTTCCAAAAGCACATTGCCAAACGCTTCTGCAAATGCTGTTCTATTTTCCAGCAAGAGGC	1199 399
TCCCGAGCGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAAATATCTGTGGG	1259 419
CUTGTGACACGGACTCAAGTGGGCTGGTGACCCCAGTCAGAGTTGTGCACATGGCTTAGTT	1319 439
TTCATACACAGCCTGGGGGGTNGGTTGGNNGAGGTCTTTTTTAAAAGGAAGTTACT	1379 459
GTTATAGAGGGTCTAAGATTCATCCATTTATTTGGCATCTGTTTAAAGTAGATTAGATCC	1439 479

SEQ ID NO.3 (SUITE)
FIG.1e

## FIG. 2

182 182 186 OLWANGAN, JANEWARKI ENGLYNINGSPERTELTI. ITTORY I.ANAN HAVEALKARTVIEGVVTSVITWI VAVEASOPGI I ENJKOOKENSV OEW HYVRGIINWAFGIIGMCIALT SGEYNTSI YSBITEETTI. ITTORY I.ANAN BANDARTVIEGVIITSI VITWOTAYN AALEETTEETEETEETEETE PKI.KDIMVEGDAMCKIII SCENYTICLYSELEETIII.TIDRYI.AIIVIIAVEAI MARTVTEGVIITSIIIIMAI ATI ASMECLYESKII MEETII PEWFYKA BYCWVEGLGTICKMI SWMYLVGEMSGI FEVMIMSI DRYI AI WHAVEWWARTITHIYGVIITSLAIWSVAV FASI. PGFI ESTCYTEMH FGNIMOCLTGLYETGEFSGIFFIII.TIDRYI.AMVIIAVFALKARTVTFGVVTSVITWWAVFASLPGIIF"IR:QKFGIN MON SEPTIMENT SEPCONTIMENTO IN THE LYSIVE I FOEVGNMINITALINCK REKSMTDIYLLINIA I SDIF W Worke HANTSKYLLNIAISDL MAPTOIADTTLDESIYSNYYLYESIPKPONKEGIKAFGELFILPPLYSLVEWEGLIGNSYVVEVLFKYKRIFSMTOMYLLNLAISDIA MISTSKERFIRNTNESGEEVTTEETYDYGAPCPIGETNKO1 PALLIPPLYSI,VETEGEVGNMI.VVILILINCKALKCI PDIYLILINIAISDIA WMILLIKYRRIRIMININIALSDI METENTTEDYDTTTEFTERGEDATFCOKMBIRAFGEDELPPLYSLVFV119110GN1 > AP EWALLY A hcc-32b hcc- R4 hcc-R2b hcc--R1 hcc-x3 hcc-R3 ncc-R4 hcc-R1 CCRS

YTCE HIEPY SOYQEWKNEQTLKIVILGLVLPLLVMVICY SGILKTLLRCRNEKKRIIRAVRLIETIMIVY ELEWAPYNIVLLLINT FQEF FGLNNC TYCKIKYSINBT. TWKYLSSLEINITIGLYIPLGIM FCYSMIJINTLDIICKNEKKI, NKAYKMIEAVVVLFIGEWIPYNIVIJELEILLAVICC ISVEORELETIE Maine Informatified and a contraction of the contra ERASSVY1114STIGEOE11SW31. WANEDITEMENT LIGILALIPHY TOY SGITLINITER CRINEKKRITRAVIAN FITMIVY FLEWIPYN TVI SEED HE DOAMOV TET LOW FIICCINPIIYA EVGEKER YTII, VEECKIITAKII. FOIR PEIFOLE ENTRY HEIDEVYS ICS HEFFHESTRE

ncc-R2b

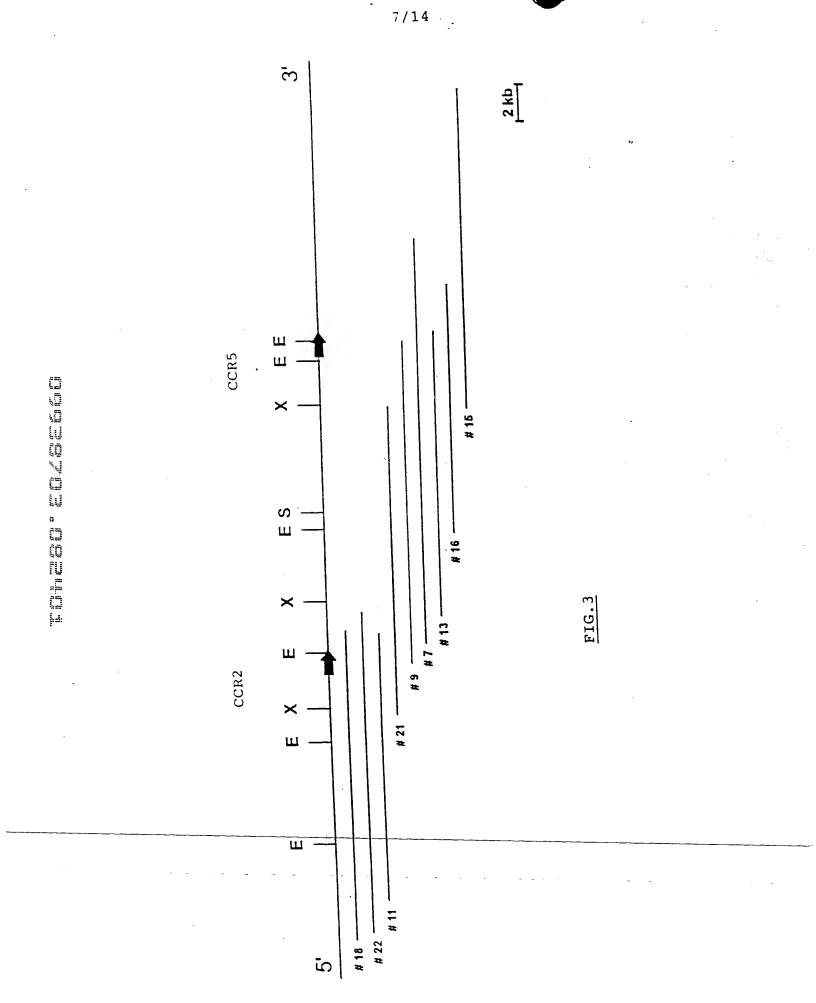
CCR5

ncc-33

hcc- R4

ncc+31

355 355 TNIHESTGEQENSP131 GLEVICOYGGLIQIYSADTHSSSYTCSTMDHDLHDAL FIRSO DOAMOVETLIGHTHICCINPILYAFVGEKFRRYI SVEFRKIII OVTEIVIAYFIICCOMULDLYAEVGELDEIGRAYIJROIDEIRRADVII. I.MRMI.PET.SVDRIERN WILEVIAY SUICCE WINDERVER PRINCE IN THE PRINCE OF THE FIRM THE PRINCE OF hec- R2b hcc- R4 ncc--R3 ncc- R1 CCR5



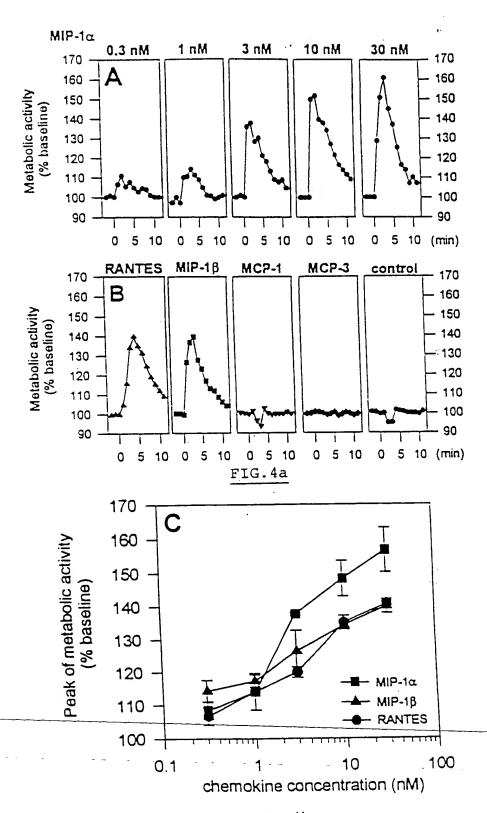


FIG.4b

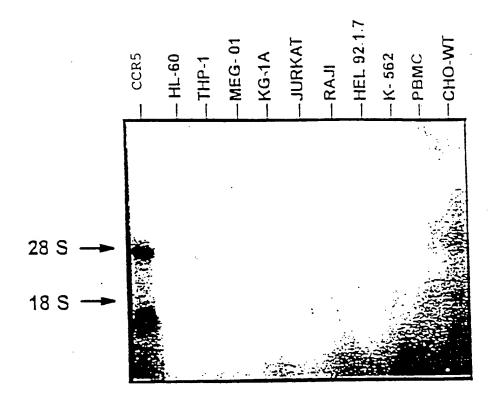
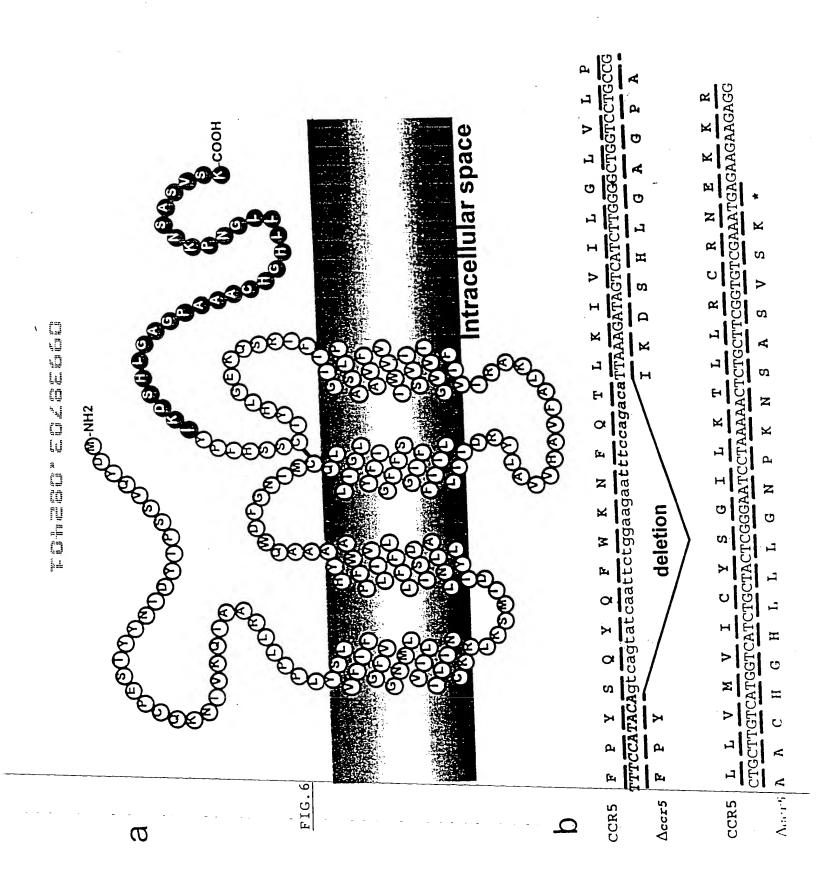
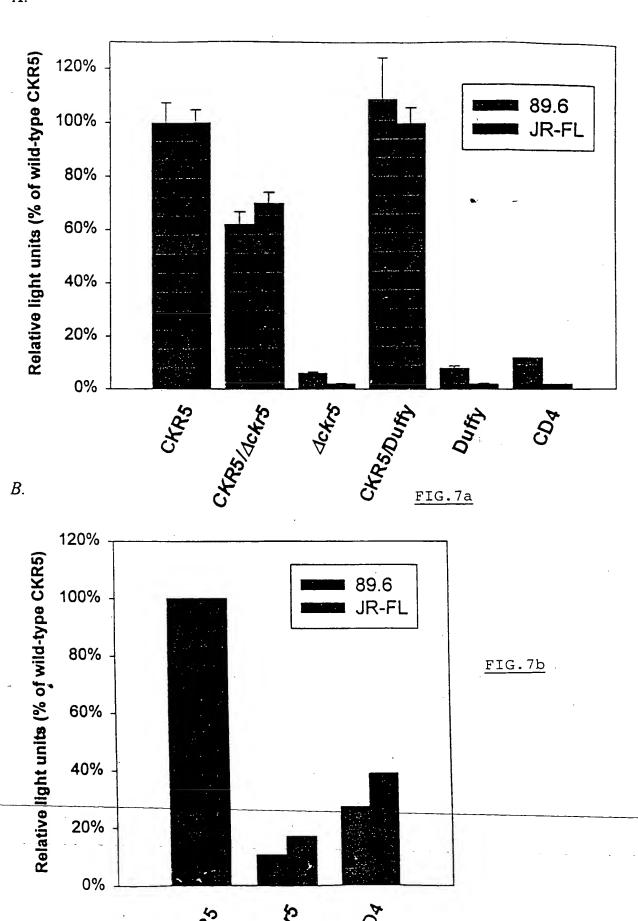


FIG.5







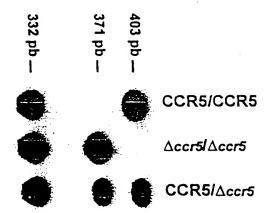
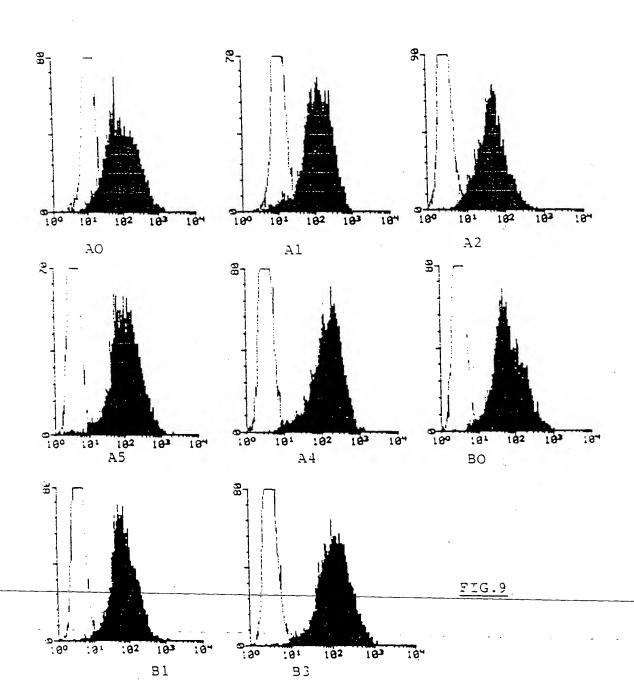


FIG.8



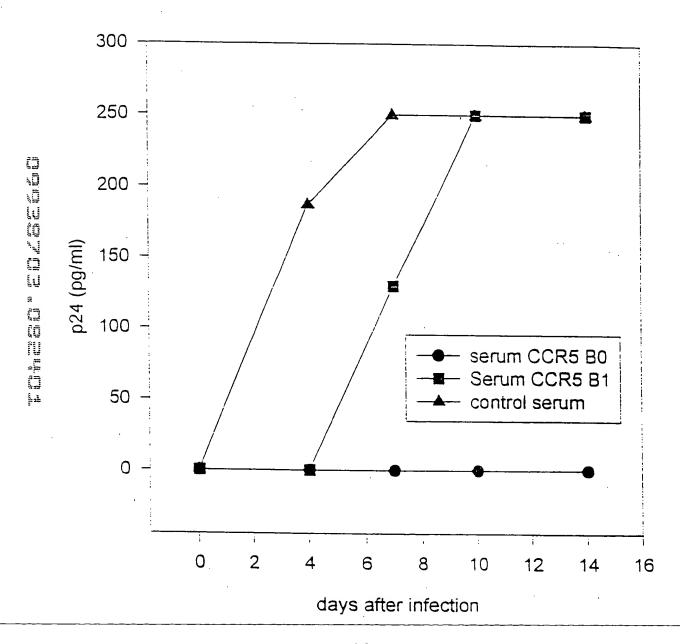


FIG.10